

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A data transmission system including subscriber units ~~and configured to interconnect with~~ a central office unit ~~which are interconnected~~ via optical fibers, the central office unit ~~multiplexing is configured to multiplex~~ a video signal with signals other than the video signal and to deliver them to the ~~multiple~~ subscriber units, ~~wherein and~~ each subscriber unit ~~is configured to demultiplex~~ ~~demultiplexing~~ a received signal, said ~~data transmission system comprising in said subscriber unit~~ comprising:

a wavelength division multiplexer/demultiplexer ~~having a function of eliminating~~ configured to eliminate a particular wavelength signal.

Claim 2 (Currently Amended): The data transmission system according to claim 1, wherein said wavelength division multiplexer/demultiplexer ~~reflects~~ is configured to reflect the particular wavelength signal to reject its input.

Claim 3 (Currently Amended): The data transmission system according to claim 1, wherein said wavelength division multiplexer/demultiplexer comprises a reflecting layer ~~for reflecting~~ configured to reflect the particular wavelength signal at an input end surface of an optical fiber of the subscriber unit.

Claim 4 (Currently Amended): The data transmission system according to claim 3, wherein said reflecting layer ~~consists of~~ comprises a dielectric multilayer filter.

Claim 5 (Original): The data transmission system according to claim 1, comprising an optical fiber with a core and a cladding that covers an external surface of the core, and that has multiple notches formed on the cladding to reflect the particular wavelength signal.

Claim 6 (Original). The data transmission system according to claim 1, wherein said wavelength division multiplexer/demultiplexer comprises an optical wave guide that is made of a polymer and absorbs a signal with a wavelength of 1650 nm, which is employed as the particular wavelength signal.

Claim 7 (Currently Amended): A data transmission system including subscriber units ~~and configured to interconnect with~~ a central office unit ~~which are interconnected~~ via optical fibers, the central office unit ~~multiplexing configured to multiplex~~ a video signal with signals other than the video signal ~~and~~ to deliver them to the multiple subscriber units, ~~wherein and~~ each subscriber unit ~~is configured to demultiplex~~ ~~demultiplexing~~ a received signal, and said central office unit ~~comprising,~~ comprises:

an optical amplifier ~~for amplifying~~ configured to amplify the video signal to be transmitted; and

an optical distributor ~~for distributing~~ configured to distribute the video signal output from said optical amplifier~~[[,]]~~ and ~~supplying to supply the video signal output~~ to a wavelength division multiplexer/demultiplexer, wherein

each of said subscriber units comprises a wavelength division multiplexer/demultiplexer ~~having a function of eliminating~~ configured to eliminate a particular wavelength signal.

Claim 8 (Currently Amended): A data transmission system including subscriber units ~~and configured to interconnect with~~ a central office unit ~~which are interconnected~~ via optical fibers, the central office unit ~~multiplexing configured to multiplex~~ a video signal with signals other than the video signal and to deliver them to the multiple subscriber units, ~~[[and]]~~ wherein each subscriber unit ~~demultiplexing is configured to demultiplex~~ a received signal, and said central office unit ~~comprising, comprising:~~

a plurality of video signal generators ~~for generating configured to generate~~ video signals with different wavelengths;

a first wavelength division multiplexer/demultiplexer ~~for multiplexing configured to~~ multiplex the video signals supplied from said plurality of video signal generators;

an optical amplifier ~~for amplifying configured to amplify~~ the video signals output from said first wavelength division multiplexer/demultiplexer; and

an optical distributor ~~for distributing configured to distribute~~ the video signals output from said optical amplifier to a second wavelength division multiplexer/demultiplexer, wherein

each of said subscriber units comprises a wavelength division multiplexer/demultiplexer ~~with a function of eliminating configured to eliminate~~ a particular wavelength signal.

Claim 9 (Currently Amended): A data transmission system including subscriber units ~~and configured to interconnect with~~ a central office unit ~~which are interconnected~~ via optical fibers, the central office unit ~~multiplexing configured to multiplex~~ a video signal with signals other than the video signal and to deliver them to the multiple subscriber units, ~~[[and]]~~ wherein each subscriber unit is configured to demultiplex ~~demultiplexing~~ a received signal, and said subscriber unit ~~comprising, comprises:~~

a first wavelength division multiplexer/demultiplexer ~~for demultiplexing~~ configured to demultiplex the video signals and signals other than the video signal; and

a second wavelength division multiplexer/demultiplexer ~~with a function of eliminating~~ configured to eliminate a particular wavelength signal.